AUTODOC CLUB

How to change front brake pads on **BMW E92** – replacement guide

VIDEO TUTORIAL

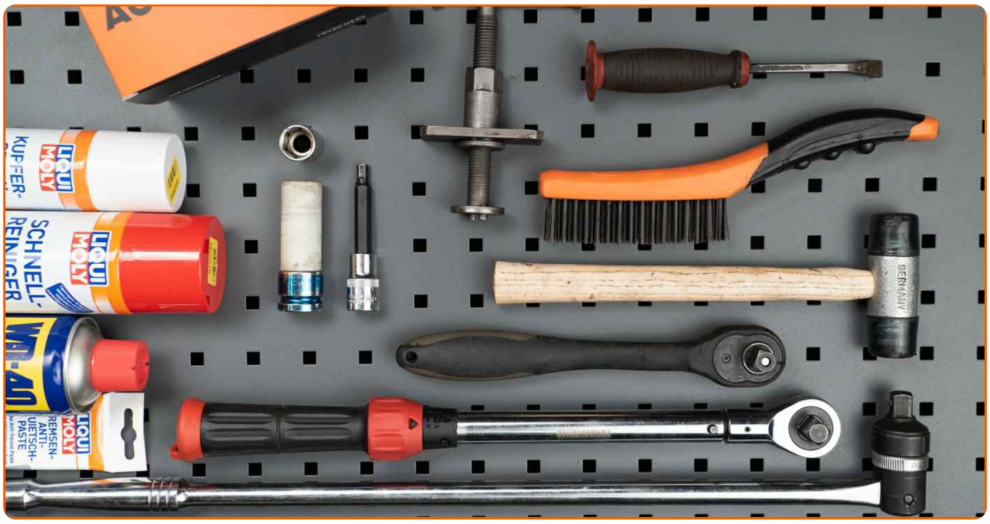


Important!

This replacement procedure can be used for:
BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 1 Coupe (E82) 118d 2.0, BMW 3 Coupe (E92) 318i 2.0, BMW 3 Convertible (E93) 318i 2.0, BMW 3 Convertible (E93) 325d 3.0, BMW 1 Hatchback (E81) 116i 1.6, BMW 1 Hatchback (E81) 120d 2.0, BMW 3 Saloon (E90) 320i 2.0, BMW 3 Saloon (E90) 325i 2.5, BMW 3 Saloon (E90) 320d 2.0, BMW 1 Hatchback (E81) 130i 3.0, (+ 53)

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE PADS – BMW E92. TOOLS YOU MIGHT NEED:



- Wire brush
- Brake cleaner
- Anti-squeal paste
- Copper grease
- HEX bit No.H7.
- Wheel impact socket #17
- Brake caliper wind back tool
- Ratchet wrench
- Torque wrench
- Crow bar
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: brake pads – BMW E92. AUTODOC experts recommend:

- Perform the replacement of brake pads in complete set for each axis. This provides effective braking.
- The replacement procedure is identical for all brake pads on the same axle.
- All work should be done with the engine stopped.

REPLACEMENT: BRAKE PADS – BMW E92. RECOMMENDED SEQUENCE OF STEPS:

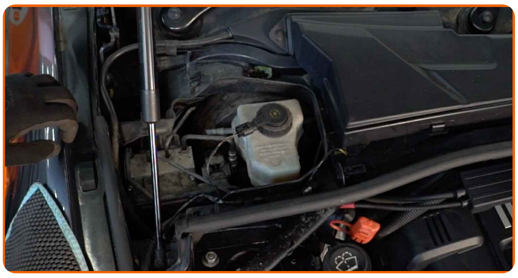
1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Remove the wiper arm cover.

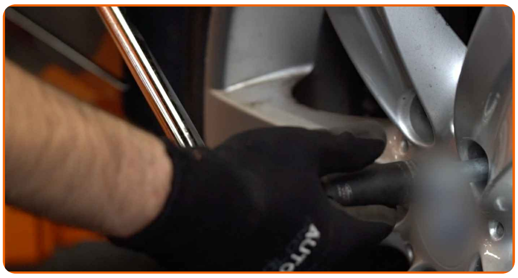


4 Unscrew the brake fluid reservoir cap.



5 Secure the wheels with chocks.

6 Loosen the wheel mounting bolts. Use wheel impact socket #17.



7 Raise the front of the car and secure on supports.



8 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. BMW E92

9

Remove the wheel.



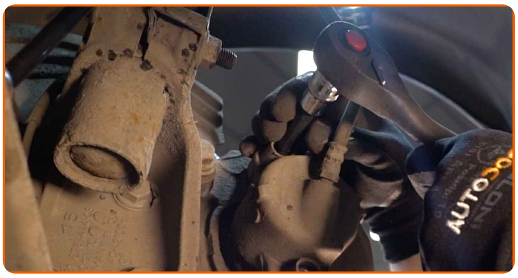
10

Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.



11

Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



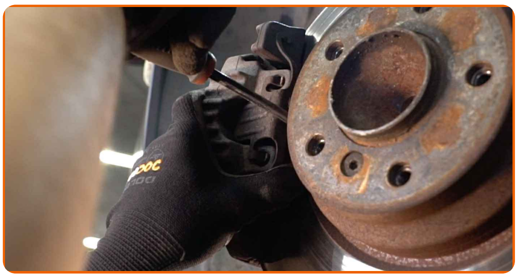
12

Spread the brake pads. Use a crowbar.



13

Detach the brake caliper retaining spring. Use a crowbar.



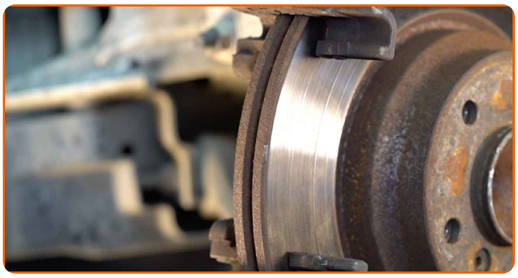
14 Remove the brake caliper.



Replacement: brake pads – BMW E92. AUTODOC recommends:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

15 Remove the brake pads.



Replacement: brake pads – BMW E92. Tip:

- Measure the brake disc thickness. Upon reaching the wear limit the part must be replaced.

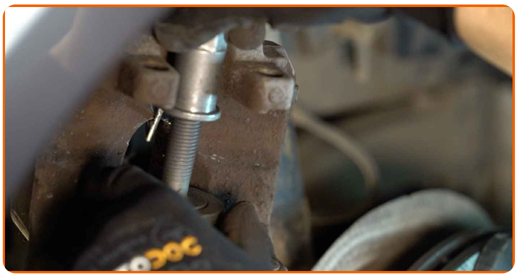
16 Treat the brake caliper piston. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake pads – BMW E92. After applying the spray, wait a few minutes.

17 Press in the brake caliper piston. Use brake caliper wind back tool.



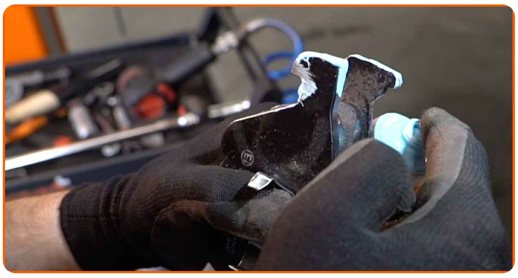
18 Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



Replacement: brake pads – BMW E92. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

19 Treat the brake pads in the area where their surface comes into contact with the brake caliper bracket. Use anti-squeal paste.



Replacement: brake pads – BMW E92. Professionals recommend:

- Make sure the disc surface is clean before installing the pads.

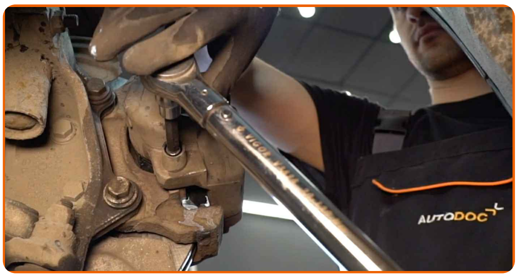
20 Install new brake pads.



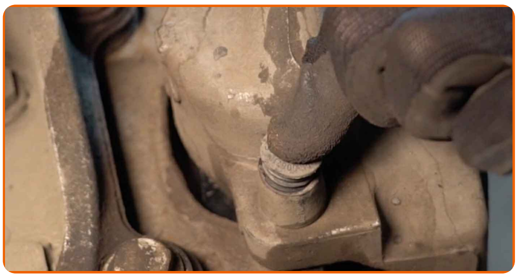
Replacement: brake pads – BMW E92. Tip from AUTODOC experts:

- Make sure the pads are installed with linings facing the disc.

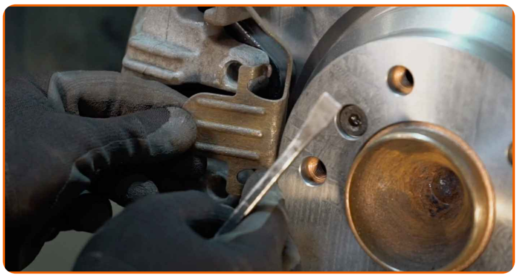
21 Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



22 Install the dust boot caps of the brake caliper guide pins.



23 Install the brake caliper retaining spring.



24 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



25 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake pads – BMW E92. After applying the spray, wait a few minutes.

26 Install the wheel.



Replacement: brake pads – BMW E92. AUTODOC recommends:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

27 Screw in the wheel bolts. Use wheel impact socket #17.



28 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.



29 Remove the jacks and chocks.

AUTODOC recommends:

- Important! Replacement: brake pads – BMW E92. Check the brake fluid level in the reservoir and top up if necessary.

30 Tighten the brake fluid reservoir cap.



AUTODOC recommends:

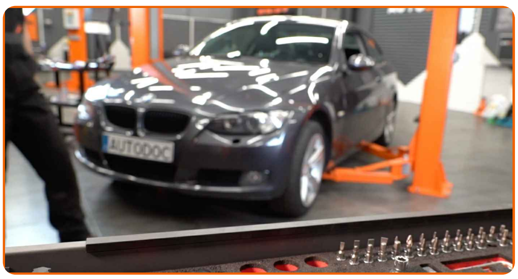
- BMW E92 – Press the brake pedal several times with the engine shut down until you feel the resistance built up.

31 Install the wiper arm cover.



32 Remove the fender protection cover.

33 Close the hood.



Replacement: brake pads – BMW E92. AUTODOC experts recommend:

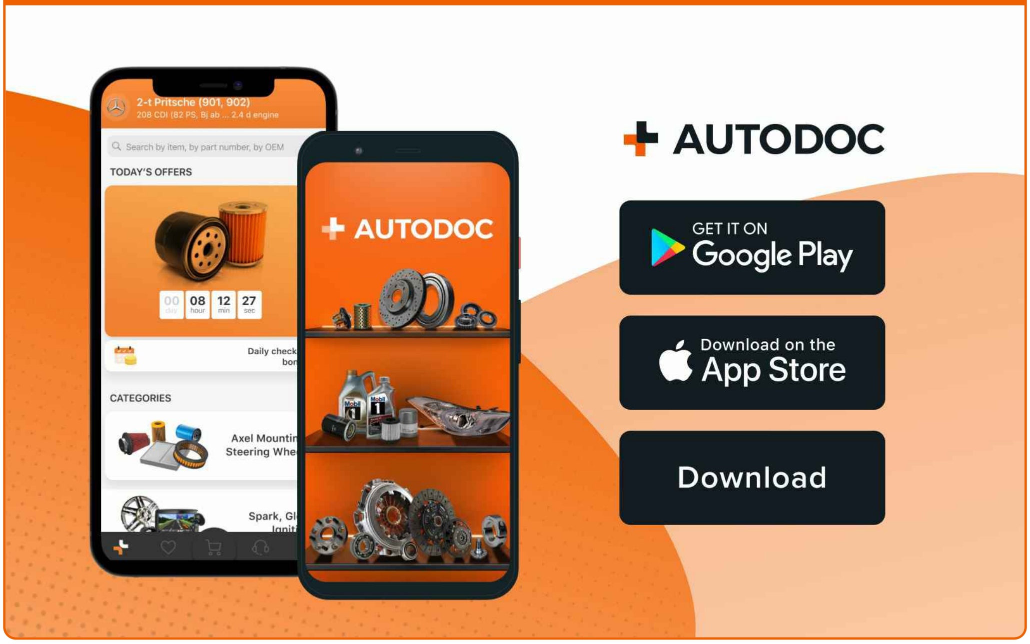
- Slow down smoothly for first 150-200 km after the brake pads replacement. Avoid unneccessary and sharp braking to a stop.

WELL DONE!

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